

Table of contents Volume 100

No. 1 pp 1-70 issued on 30.11.1990
 No. 2 pp 71-138 issued on 31.01.1990
 No. 3 pp 139-212 issued on 20.03.1991
 No. 4 pp 213-288 issued on 22.04.1991

Ajioka JW, Smoller DA, Jones RW, Carulli JP, Vellek AEC, Garza D, Link AJ, Duncan IW, Hartl DL: *Drosophila* genome project: One-hit coverage in yeast artificial chromosomes 495
 Albalat R → Visa N
 Albini SM → Jones GH
 Alieva IB, Vorobjev IA: Induction of multipolar mitoses in cultured cells: Decay and restructuring of the mitotic apparatus and distribution of centrioles 532
 Allis CD → Olins DE
 Amalric F → Biggiogera M
 Angelier N → Rodriguez-Martin M-L
 Atrian S → Visa N
 Bachellerie J-P → Puvion-Dutilleul F
 Baldini A, Miller DA, Miller OJ, Ryder OA, Mitchell AR: A chimpanzee-derived chromosome-specific alpha satellite DNA sequence conserved between chimpanzee and human 156
 Barnett L → Varley JM
 Barsacchi G → Vignali R
 Barthelemy I → Moreno Diaz de la Espina S
 Batistoni R → Vignali R
 Bebehov DV → Danilevskaya ON
 Beckers L → Huijser P
 Belyaeva ES, Zhimulev IF: Cytogenetic and molecular aspects of position effect variegation in *Drosophila*. III. Continuous and discontinuous compaction of chromosomal material as a result of position effect variegation 453
 Benavente R: Postmitotic nuclear reorganization events analyzed in living cells 215
 Bernat RL → Earnshaw WC
 Besser H von, Schnabel P, Wieland C, Fritz E, Stanewsky R, Saumweber H: The puff-specific *Drosophila* protein B6, encoded by the gene *no-on-transient A*, shows homology to RNA-binding proteins 37
 Biggiogera M, Kaufmann SH, Shaper JH, Gas N, Amalric F, Fakan S: Distribution of nucleolar proteins B23 and nucleolin during mouse spermatogenesis 162
 Boldyreff B → Winking H
 Brandriff BF, Gordon LA, Segraves R, Pinkel D: The male-derived genome after sperm-egg fusion: Spatial distribution of chromosomal DNA and paternal-maternal genomic association 262
 Cabrero J → Lopez-Leon MD
 Camacho JPM → Lopez-Leon MD
 Caput D → Sala-Rovira M
 Carulli JP → Ajioka JW
 Cerezuela MA → Moreno Diaz de la Espina S
 Charron M, Hancock R: Chromosome recombination and defective genome segregation induced in Chinese hamster cells by the topoisomerase II inhibitor VM-26 97

No. 5 pp 289-354 issued on 27.05.1991
 No. 6 pp 355-418 issued on 28.06.1991
 No. 7 pp 419-478 issued on 18.07.1991
 No. 8 pp 479-543 issued on 15.08.1991

Chromosoma Prize 213
 Chung M-C → Wu H-K
 Cionini PG → Maggini F
 Clark MW → Dvorkin N
 Cremisi F → Vignali R
 Cremonini R → Maggini F
 Cusano R → Jabs EW
 Dabauvalle M-C, Loos K, Scheer U: Identification of a soluble precursor complex essential for nuclear pore assembly in vitro 56
 Danilevskaya ON, Kurenova EV, Pavlova MN, Bebehov DV, Link A, Koga A, Vellek A, Hartl DL: He-T family DNA sequences in the Y chromosome of *Drosophila melanogaster* share homology with the X-linked Stellate genes 118
 Debey P → Szöllösi MS
 Delre V → Maggini F
 DePace C → Maggini F
 Derenzini M → Pession A
 Di Castro M → Pelliccia F
 Dobrovic A, Peters GB, Ford JH: Molecular analysis of the Philadelphia chromosome 479
 D'ovidio R → Maggini F
 Duncan IW → Ajioka JW
 Dvorkin N, Clark MW, Hamkalo BA: Ultrastructural localization of nucleic acid sequences in *Saccharomyces cerevisiae* nucleoli 519
 Earnshaw WC, Bernat RL: Chromosomal passengers: Toward an integrated view of mitosis 139
 Eicher EM → Hunt PA
 Endo TR → Mukai Y
 Erratum 67
 Fakan S → Biggiogera M
 Farabegoli F → Pession A
 Fernandez-Piqueras J → Lozano R
 Ford JH → Dobrovic A
 Formanek H → Wanner G
 Fratta D → Vignali R
 Fredga K → Winking H
 Fritz E → Besser H von
 Ganguly R → Krishnan R
 Garza D → Ajioka JW
 Gas N → Biggiogera M
 Gatzka F → Lezzi M
 Geraud ML → Sala-Rovira M
 Gill BS → Mukai Y
 Glass CA → Sullivan KF
 Gonzalez-Duarte R → Visa N
 Gordon LA → Brandriff BF
 Gosálvez J → Juan C
 Gray JW → Weier H-U
 Gruzdev AD → Lezzi M
 Hager EJ, Miller OL Jr: Ultrastructural analysis of polytene chromatin of *Drosophila melanogaster* reveals clusters of tightly linked co-expressed genes 173
 Hamkalo BA → Dvorkin N
 Hancock R → Charron M
 Hao S → Zhao J
 Hartl DL → Ajioka JW
 Hartl DL → Danilevskaya ON
 Hartl DL → Smoller DA
 Hauser LJ, Roberson AE, Olins DE: Structure of the macronuclear polyubiquitin gene in *Euploites* 386
 Hayes H → Yoneda A
 Hellmer A, Voiculescu I, Schempp W: Replication banding studies in two cyprinid fishes 524
 Hennig W: 50 Years Chromosoma – 99 volumes 1
 Hennig W → Huijser P
 Hennig W → Pardue ML
 Herberts C → Rodriguez-Martin M-L
 Hermann RG → Wanner G
 Hermans M → Huijser P
 Herrmann A → Olins DE
 Herzog M → Sala-Rovira M
 Highett MI → Rawlins DJ
 Huberman JA: Cell cycle control of initiation of eukaryotic DNA replication 419
 Huijser P, Beckers L, Top B, Hermans M, Sinke R, Hennig W: Poly[d(C-A)]-poly[d(G-T)] is highly transcribed in the testes of *Drosophila hydei* 48
 Hunt PA, Eicher EM: Fertile male mice with three sex chromosomes: Evidence that infertility in XYY male mice is an effect of two Y chromosomes 293
 Ineichen H → Lezzi M
 Ishak B, Jaafar H, Maetz JL, Rumpf Y: Absence of transcriptional activity of the B-chromosomes of *Apodemus peninsulae* during pachytene 278
 Jaafar H → Ishak B
 Jabs EW, Tuck-Muller CM, Cusano R, Rattner B: Studies of mitotic and centromeric abnormalities in Roberts syndrome: Implications for a defect in the mitotic mechanism 251
 Jacques F → Sala-Rovira M
 Jones GH, Albini SM, Whitehorn JAF: Ultrastructure of meiotic pairing in B chromosomes of *Crepis capillaris*. II. 4 B pollen mother cells 193
 Jones RW → Ajioka JW
 Juan C, Gosálvez J, Mezzanotte R, Petit-pierre E: Cytological and biochemical characterization of the in situ endonuclease digestion of fixed *Tenebrio molitor* chromosomes 432
 Kaneda Y → Yoneda A
 Kaufmann SH → Biggiogera M
 Kenton A: Heterochromatin accumulation, disposition and diversity in *Gibasis karwinskyana* (Commelinaceae) 467
 Klein F → Loidl J
 Koga A → Danilevskaya ON
 Krishnan R, Swanson KD, Ganguly R: Dosage compensation of a retina-specific gene in *Drosophila miranda* 125
 Kurenova EV → Danilevskaya ON
 Lanza V → Pelliccia F
 Lezzi M, Gatzka F, Ineichen H, Gruzdev AD: Transcriptional activation of puff

site I-18C of *Chironomus tentans*: Hormonal responsiveness changes in parallel with diurnal decondensation cycle 235

Lin R → Ollins DE

Link AJ → Ajioka JW

Link A → Danilevskaya ON

Lipps HJ → Stoll S

Loidl J: Coming to grips with a complex matter. A multidisciplinary approach to the synaptonemal complex 289

Loidl J, Nairz K, Klein F: Meiotic chromosome synapsis in a haploid yeast 221

Loos K → Dabauvalle M-C

López-León MD, Cabrero J, Camacho JPM: A nucleolus organizer region in a B chromosome inactivated by DNA methylation 134

López-León MD, Cabrero J, Camacho JPM: Meiotic drive against an autosomal supernumerary segment promoted by the presence of a B chromosome in females of the grasshopper *Eyprepocnemis plorans* 282

Lozano R, Sentís C, Ferrández-Piquerias J, Rejón MR: In situ digestion of satellite DNA of *Scilla siberica* 439

Lucas JN → Weier H-UG

Macgregor HC → Varley JM

Maetz JL → Ishak B

Maggini F, Cremonini R, Zolfino C, Tucci GF, D'ovidio R, Delre V, DePace C, Scarascia Mugnozza GT, Cionini PG: Structure and chromosomal localization of DNA sequences related to ribosomal subrepeats in *Vicia faba* 229

Marfany G → Visa N

Margolis RL → Palmer DK

Martin R → Wanner G

Mavragnani-Tsipidou P, Scouras ZG: Developmental changes in fat body and midgut chromosomes of *Drosophila auraria* 443

Mezzanotte R → Juan C

Miller DA → Baldini A

Miller OJ → Baldini A

Miller OL Jr → Hager EJ

Mitchell AR → Baldini A

Mitchell AR → Torre J de la

Moens PB, Pearlman RE: Telomere and centromere DNA are associated with the cores of meiotic prophase chromosomes 8

Montanaro L → Pession A

Moreau N → Rodriguez-Martin M-L

Moreno Diaz de la Espina S, Barthelemy I, Cerezuela MA: Isolation and ultrastructural characterization of the residual nuclear matrix in a plant cell system 110

Moriwaki K → Winking H

Mukai Y, Endo TR, Gill BS: Physical mapping of the 18S.26S rRNA multigene family in common wheat: Identification of a new locus 71

Nairz K → Loidl J

Ning C-N → Wu H-K

Novello F → Pession A

O'Day K → Palmer DK

Okada Y → Yoneda A

Ollins AL → Ollins DE

Ollins DE, Ollins AL, Herrmann A, Lin R, Allis CD, Robert-Nicoud M: Localization of acetylated histone H4 in the macro-nucleus of *Euploites* 377

Ollins DE → Hauser LJ

Palmer DK, O'Day K, Margolis RL: The centromere specific histone CENP-A is selectively retained in discrete foci in mammalian sperm nuclei 32

Pardue ML, Hennig W: Heterochromatin: junk or collectors item? 3

Pavlova MN → Danilevskaya ON

Pearlman RE → Moens PB

Pelliccia F, Di Castro M, Lanza V, Volpi EV, Rocchi A: GATA repeats in the genome of *Asellus aquaticus* (Crustacea, Isopoda) 152

Pession A, Farabegoli F, Treré D, Novello F, Montanaro L, Pession A, Rambelli F, Derenzini M: The Ag-NOR proteins and transcription and duplication of ribosomal genes in mammalian cell nucleoli 242

Peters GB → Dobrovic A

Petitpierre E → Juan C

Petrov D → Smoller DA

Pinkel D → Brandriff BF

Pinkel D → Weier H-UG

Poggensee M → Weier H-UG

Puro J: Differential mechanisms governing segregation of a univalent in oocytes and spermatocytes of *Drosophila melanogaster* 305

Puvion E → Puvion-Dutilleul F

Puvion-Dutilleul F, Bachellerie J-P, Puvion E: Nucleolar organization of HeLa cells as studied by in situ hybridization 395

Rambelli F → Pession A

Rattner JB → Jabs EW

Rawlins DJ, Hightett MI, Shaw PJ: Localization of telomeres in plant interphase nuclei by in situ hybridization and 3D confocal microscopy 424

Rejón MR → Lozano R

Rijli FM → Vignali R

Rime H → Szöllösi MS

Roberson AE → Hauser LJ

Robert-Nicoud M → Ollins DE

Rocchi A → Pelliccia F

Rodriguez-Martin M-L, Moreau N, Herberts C, Angelier N: Comparison between in vivo and in vitro heat-induced changes in amphibian lampbrush chromosomes 79

Roth GE: Replication analysis of plasmid DNAs injected into *Drosophila* embryos 267

Rumpler Y → Ishak B

Ryder OA → Baldini A

Sala-Rovira M, Geraud ML, Caput D, Jacques F, Soyer-Gobillard MO, Vernet G, Herzog M: Molecular cloning and immunolocalization of two variants of the major basic nuclear protein (HCC) from the histone-less eukaryote *Cryptocodinium cohnii* (Pyrrophophyta) 510

Saumweber H → Besser H von

Scarascia Mugnozza GT → Maggini F

Scheer U → Dabauvalle M-C

Schempp W → Hellmer A

Schmid M → Stoll S

Schnabel P → Besser H von

Scouras ZG → Mavragnani-Tsipidou P

Segraves R → Brandriff BF

Segraves R → Weier H-UG

Sentís C → Lozano R

Shaper JH → Biggiogera M

Shaw PJ → Rawlins DJ

Sinke R → Huijser P

Smoller DA, Petrov D, Hartl DL: Characterization of bacteriophage P1 library containing inserts of *Drosophila* DNA of 75-100 kilobase pairs 487

Smoller DA → Ajioka JW

Smyth DR: Dispersed repeats in plant genomes 355

Soyer-Gobillard MO → Sala-Rovira M

Sperti S → Pession A

Stanewsky R → Besser H von

Stoll S, Schmid M, Lipps HJ: The organization of macronuclear DNA sequences associated with C₄A₄ repeats in the polytene chromosomes of *Styloynchia lemnae* 300

Sullivan KF, Glass CA: CENP-B is a highly conserved mammalian centromere protein with homology to the helix-loop-helix family of proteins 360

Summer AT: Scanning electron microscopy of mammalian chromosomes from prophase to telophase 410

Summer AT → Torre J de la

Swanson KD → Krishnan R

Szöllösi D → Szöllösi MS

Szöllösi MS, Debey P, Szöllösi D, Rime H, Vautier D: Chromatin behaviour under influence of puromycin and 6-DMAP at different stages of mouse oocyte maturation 339

Top B → Huijser P

Torre J de la, Mitchell AR, Summer AT: Restriction endonuclease/nick translation of fixed mouse chromosomes: A study of factors affecting digestion of chromosomal DNA in situ 203

Traut W → Winking H

Treré D → Pession A

Tucci GF → Maggini F

Tuck-Muller CM → Jabs EW

Uchida T → Yoneda A

Varley JM, Macgregor HC, Barnett L: Characterisation of a short, highly repeated and centromerically localised DNA sequence in crested and marbled newts of the genus *Triturus* 15

Vautier D → Szöllösi MS

Vellek AEC → Ajioka JW

Vellek A → Danilevskaya ON

Vernet G → Sala-Rovira M

Vignali R, Rijli FM, Batistoni R, Fratta D, Cremisi F, Barsacchi G: Two dispersed highly repeated DNA families of *Triturus vulgaris meridionalis* (Amphibia, Urodele) are widely conserved among Salamandridae 87

Vilageliu L → Visa N

Visa N, Marfany G, Vilageliu L, Albalat R, Atrian S, González-Duarte R: The *Adh* in *Drosophila*: Chromosomal location and restriction analysis in species with different phylogenetic relationships 315

Voiculescu I → Hellmer A

Volpi EV → Pelliccia F

Vorobjev IA → Alieva IB

Wanner G, Formanek H, Martin R, Hermann RG: High resolution scanning electron microscopy of plant chromosomes 103

Weier H-UG, Lucas JN, Poggensee M, Segraves R, Pinkel D, Gray JW: Two-color hybridization with high complexity chromosome-specific probes and a degenerate alpha satellite probe DNA allows unambiguous discrimination between symmetrical and asymmetrical translocations 371

Weith A → Winking H

Whitehorn JAF → Jones GH

Wieland C → Besser H von

Winking H, Weith A, Boldyreff B, Moriwaki K, Fredga K, Traut W: Polymorphic HSRs in chromosome 1 of the two semispecies *Mus musculus musculus* and *M. m. domesticus* have a common origin in an ancestral population 147

Wu H-K, Chung M-C, Wu T, Ning C-N, Wu R: Localization of specific repetitive DNA sequences in individual rice chromosomes 330

Wu R → Wu H-K

Wu T → Wu H-K

Xing M → Zhao J

Yoneda A, Yoneda Y, Kaneda Y, Hayes H, Uchida T, Okada Y: Monoclonal antibodies specific for human chromosome 5

obtained with a monochromosomal hybrid can be used to sort out cells containing the chromosome with a FACS 187

Yoneda Y → Yoneda A

Zhao J, Hao S, Xing M: The fine structure of the mitotic chromosome core (scaffold) of *Trilophidia annulata* 323

Zhimulev IF → Belyaeva ES

Zolfino C → Maggini F

Acknowledgement to reviewers VI

Chromosoma Prize 1

Indexed in Current Contents